ABSTRACT

A fluid delivery system of the invention comprises one or more intercoupled cartridge assembles. Each cartridge assembly comprises a plurality of interconnected cartridges, each comprising a reservoir for holding jetting fluid and an ink jet print head operatively connected to the reservoir. Each cartridge assembly is interconnected by a first interconnection assembly and a second interconnection assembly. The first interconnection assembly maintains the plurality of interconnected cartridges at a negative pressure. The second interconnection assembly maintains at least an essentially equal level of jetting fluid within each of the reservoirs of the plurality of cartridges. Jetting fluid is replenished in the plurality of interconnected cartridges by replenishing jetting fluid in a selected cartridge and using the second interconnection assembly to distribute the jetting fluid among the reservoirs of the interconnected cartridges. A sensor is coupled to the selected reservoir to monitor the level of jetting fluid in the cartridge assembly.